

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1-11 are pending, with Claims 1 and 11 amended by the present amendment.

In the Official Action, Claims 1-3, 6, 7, 9 and 11 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Fogel (WO 01/50151) in view of Eriksson et al. (U.S. Patent Publication No. 2002/0059453, hereinafter "Eriksson"); and Claims 4, 5, 8 and 10 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Fogel and Eriksson in view of Knutsson et al. (U.S. Patent Publication No. 2002/0006788, hereinafter Knutsson).

Briefly recapitulating, Claim 1 is directed to an apparatus used in a mobile communication system with a plurality of wireless base stations. The apparatus includes an acquiring unit configured to acquire identification information of the wireless base stations; a location detecting unit configured to detect a present location of the apparatus upon acquiring at least one of identification information of the wireless base stations; a storing unit configured to store service location information in which to associate the acquired identification information with the detected present location of the apparatus; a location information providing unit configured to figure a location of the wireless base stations using the detected present location of the apparatus stored in the storing unit, to provide the figured location of the wireless base stations, and to share the service location information through an ad hoc network with another apparatus that is served by the wireless base station.

Fogel describes a method for localizing a moving object using a satellite base positioning system and a short range wireless system (e.g., blue tooth). Localization of a moving object is accomplished using GPS when sufficient satellites are visible. If insufficient satellites are visible, the locations of one or more nearby blue tooth base stations

are used to supplement or replacement the GPS computation results to enable more accurate cellular phone localization.<sup>1</sup>

Claims 1 and 11 are amended to recite features disclosed in Applicants' originally filed specification.<sup>2</sup> In Applicants' claimed invention, an apparatus served by a base station can share service location information (i.e., correlated information of a location and the identification of the base station) through an ad hoc network with another apparatus that is served by the base station. By having this feature, the apparatus can gather access information from other terminals through the ad hoc network apart from information stored in the server, thereby achieving an effective and quick mapping of spot area services.

In Fogel, device 54 is allocated a unique identification number and device 54's location is recorded in a look-up table. When queried, device 54 transmits its identification number (instead of or in addition to device 54's location) to cellular phone 61 via return signal 64.<sup>3</sup>

Eriksson describes a method and system in a heterogeneous environment, capable of locating at least one optimal access area or point for supporting one or more access technologies requested by the user. The optimal access points, and alternative options are mapped in accordance with the resulting location, combined requirements and service/application requirements of the communication device. This mapping and other information/recommendations related to the access points are then provided to the communications device for action by the user.<sup>4</sup> In Eriksson, the result of a mapping analysis can be used to identify or select the optimal access points (step 250). The selection of access points is a function of the mapped information. The mapped information may be a subset of

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<sup>1</sup> Fogel, Abstract.

<sup>2</sup> Specification page 6, line 19 – page 7, line 6 and page 13, line 22 – page 14, line 18.

<sup>3</sup> Fogel page 15, lines 6-14.

<sup>4</sup> Eriksson, Abstract.

the overall available access points, however the selection can be an access point outside the subset.<sup>5</sup>

However, both Fogel and Eriksson fail to disclose or suggest Applicants' claimed sharing service location information through an ad hoc network with another apparatus that is served by the wireless base station.

MPEP §706.02(j) notes that to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. Also, the teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991). Without addressing the first two prongs of the test of obviousness, Applicants submit that the Official Action does not present a *prima facie* case of obviousness because both Fogel and Eriksson fail to disclose all the features of Applicants' claimed invention.

Knutsson describes a method and apparatus for providing a range of location dependent information and services to users of wireless devices coupled to a multipoint wireless access network. In Knutsson an inventory map correlates selective wireless access points with corresponding inventory located proximate to each of the selected access points. A server coupled to the wireless access points and to the inventory map correlates each access to the multipoint wireless access network from a corresponding wireless device with the corresponding inventory to provide at least one location dependent information data unit

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<sup>5</sup> Eriksson paragraph 28.

as well as location dependent services to the wireless device.<sup>6</sup> However, Knuttsen does not cure the deficiencies of Fogel and Eriksson.

Accordingly, in view of the present amendment and in light of the previous discussion, Applicants respectfully submit that the present application is in condition for allowance and respectfully request an early and favorable action to that effect.

Respectfully submitted,

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<sup>6</sup> Knuttsen, Abstract.